

SDS Service Summary

No.: SHAHL24013983902

Date: 09 Jul 2024

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SGS Job No. : SHHL2406034849SD
 Applicant : Ergodyne
 Product Name : 6210 phase change
 Composition/Ingredient of product (as per applicant submission) : See section 3 Composition/information on ingredients on the SDS
 Job Receiving Date : 26 Jun 2024
 Last Information Date : 27 Jun 2024
 SDS Preparation Period : 26 Jun 2024-01 Jul 2024

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and US Hazard Communication Standard 29 CFR 1910.1200.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Hazard Communication Standard 29 CFR 1910.1200, and is provided per attached.



SGS authenticate the photo on original SDS Service Summary only

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill US Hazard Communication Standard 29 CFR 1910.1200 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product. SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Cathy Cai

Cathy Cai
Project Engineer

Safety Data Sheet

29 CFR 1910.1200

Printing date 07/01/2024

Version number 1

Reviewed on 06/28/2024

1 Identification

- **Product identifier**
- **Trade name:** 6210 phase change
- **Recommended use of the chemical and restrictions on use**
- **Application of the substance / the preparation:** Body Cooling
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Ergodyne
1021 Bandana Boulevard East, Suite 220, Saint Paul, MN, United States, 55108
Tel: 18005355053 , 13523233500
E-mail: Deborah.Miller@ergodyne.com
- **Other US contact point:** Not available
- **Further information obtainable from:** Ergodyne
- **Emergency telephone number:**
USA
Poison Center
Tel: +1 800 222 1222
- **Reference Number:** SHHL2406034849SD; SHAHL24013983902

2 Hazard(s) identification

- **Classification of the substance or mixture**
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
- 
GHS08 Health hazard

 Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.
- **Information concerning particular hazards for human and environment:**
The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
- **Classification system:**
The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

-
- **Label elements**
 - **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
 - **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
hexadecane
- **Hazard statements**
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
P301+P310 If swallowed: Immediately call a poison center/doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **Hazards not otherwise classified (HNOC)** No further relevant information available.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed hazard statements refer to section 16.

· **Composition:**

544-76-3	hexadecane	99.99%
	 Aspiration Hazard 1, H304	
3536-49-0	Bis[hydrogen [4-[4-(diethylamino)-5'-hydroxy-2',4'-disulphonatobenzhydrylidene] cyclohexa-2,5-dien-1-ylidene]diethylammonium], calcium salt	0.01%

4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Special protective equipment and precautions for firefighters**

· **Protective equipment:**

Mouth respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

· **Environmental precautions:**

Dilute with plenty of water.

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*Do not allow to enter sewers/ surface or ground water.***· Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to section 13.*

7 Handling and storage

· Precautions for safe handling:*Ensure good ventilation/exhaustion at the workplace.**Keep receptacles tightly sealed.**Prevent formation of aerosols.**Avoid contact with skin and eyes.**For the general occupational hygienic measures refer to section 8.***· Information about protection against explosions and fires:** *Normal measures for preventive fire protection.***· Conditions for safe storage, including any incompatibilities****· Requirements to be met by storerooms and receptacles:** *Store in a cool location.***· Information about storage in one common storage facility:** *Store away from foodstuffs.***· Further information about storage conditions:***Keep receptacle tightly sealed.**Store in cool, dry conditions in well sealed receptacles.*

8 Exposure controls/personal protection

· Components with limit values that require monitoring at the workplace:*The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.***· Additional information:** *The lists that were valid during the creation were used as basis.***· Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure:****· Appropriate engineering controls:***Keep away from foodstuffs, beverages and feed.**Wash hands before breaks and at the end of work.**See Section 7 for information about design of technical facilities.***· Personal protective equipment:****· Breathing equipment:** *Suitable respiratory protective device recommended.***· Protection of hands:***Protective gloves**The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.**Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.**Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation***· Material of gloves***The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.***· Penetration time of glove material***The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Color:	Blue
Odor:	Odorless
Odor threshold:	Not available

· pH-value: Not available

· Melting point/Melting range: 18.2 °C

· Freezing point: 18.2 °C

· Boiling point/Boiling range: 287 °C

· Flash point: 135 °C

· Flammability (solid, gaseous): Not available

· Auto-Ignition temperature: 202 °C

· Decomposition temperature: Not available

· Explosion limits:

Lower: Not available.

Upper: Not available.

· Vapor pressure: Not available.

· Density: 0.7734 g/cm³

· Relative density: Not available.

· Vapor density: 7.8 g/cm³

· Evaporation rate: Not available.

· Solubility in / Miscibility with

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not available

· Viscosity:

Dynamic: Not available.

Kinematic: Not available.

· Other information: No further relevant information available.

10 Stability and reactivity

· Reactivity: No decomposition if used according to specification.

· Chemical stability: Stable under recommended storage conditions.

· Possibility of hazardous reactions: No dangerous reactions known.

· Conditions to avoid: No further relevant information available.

· Incompatible materials: No further relevant information available.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** Not available
- **Skin corrosion/irritation:** Irritating effect possible.
- **Serious eye damage/irritation:** Irritating effect possible.
- **Respiratory or skin sensitisation:** Sensitization possible.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|----------------|
| · UN-Number | |
| · DOT, IMDG, IATA | Not applicable |
| · UN proper shipping name | |
| · DOT, IMDG, IATA | Not applicable |

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- | | |
|--|--|
| · Transport hazard class(es) | |
| · DOT, IMDG, IATA | |
| · Class | Not applicable |
| · Label | Not applicable |
| · Packing group | |
| · DOT, IMDG, IATA | Not applicable |
| · Environmental hazards | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | Not applicable |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **New Jersey Right-to-Know List:**

None of the ingredients is listed.

- **New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

- **Pennsylvania Right-to-Know List:**

None of the ingredients is listed.

- **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

16 Other information

· **Relevant hazard statements***H304 May be fatal if swallowed and enters airways.*

· *****

*The contents and format of this SDS are in accordance with 29 CFR 1910.1200.***DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Date of preparation / last revision** 07/01/2024 / -· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Aspiration Hazard 1: Aspiration hazard – Category 1

· *****

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USA